

## DESCRIPTION

AMC MODEL DVAT-0518-30-5-SK-196 OPTION A05, A06 IS A 2 TO 18 GHz VARIABLE ATTENUATOR/MODULATOR WITH 5 BIT BINARY TTL CONTROL OR OPTIONAL ANALOG VOLTAGE CONTROL.

## SPECIFICATIONS

- FREQUENCY RANGE: 2 TO 18 GHz
- INSERTION LOSS: 4.0 dB MAXIMUM
- ATTENUATION FLATNESS:
  - ◎ 5 dB = ± 0.5 dB
  - ◎ 10 dB = ± 0.75 dB
  - ◎ 20 dB = ± 1.5 dB
  - ◎ 30 dB = ± 2.5 dB
- ATTENUATION ACCURACY: 0-30 dB = ± 1.0 dB
- MONOTONICITY: GUARANTEED
- TEMPERATURE VARIATION:
  - ± 2.5dB -10 to 85 deg C Typ
  - ± 3.5dB -40 to 95 deg C Typ
- SWITCHING TIME: 1.5 micro sec MAXIMUM
- RETURN LOSS: -12 dB TYP -8.5 dB MAX
- POWER RATING: +20 dBm (see note 1)
- POWER SUPPLY: +15V @ 150 mA MAXIMUM
- CONNECTORS
- RF INPUT/OUTPUT: FIELD REPLACEABLE SMA (FEMALE)
- POWER AND CONTROLS: 15 PIN MICRO-D FEMALE MATING CONNECTOR (MALE) FURNISHED
- SIZE: 2.00" x 1.81" x 0.50"

### OPTIONS:

- A05 +15 VDC POWER SUPPLY
- A06 30 dB DYNAMIC RANGE

## ENVIRONMENTAL RATINGS

- **TEMPERATURE** -40°C TO +85°C (OPERATING)  
-65°C TO +125°C (STORAGE)
- **HUMIDITY** MIL-STD-202F, METHOD 103B COND. B
- **SHOCK** MIL-STD-202F, METHOD 213B COND. B
- **VIBRATION** MIL-STD-202F, METHOD 204D COND. B
- **ALTITUDE** MIL-STD-202F, METHOD 105C COND. B
- **TEMPERATURE CYCLE** MIL-STD-202F, METHOD 107D COND. A

NOTE: THE ABOVE SPECIFICATION ARE SUBJECT TO CHANGE OR REVISION.

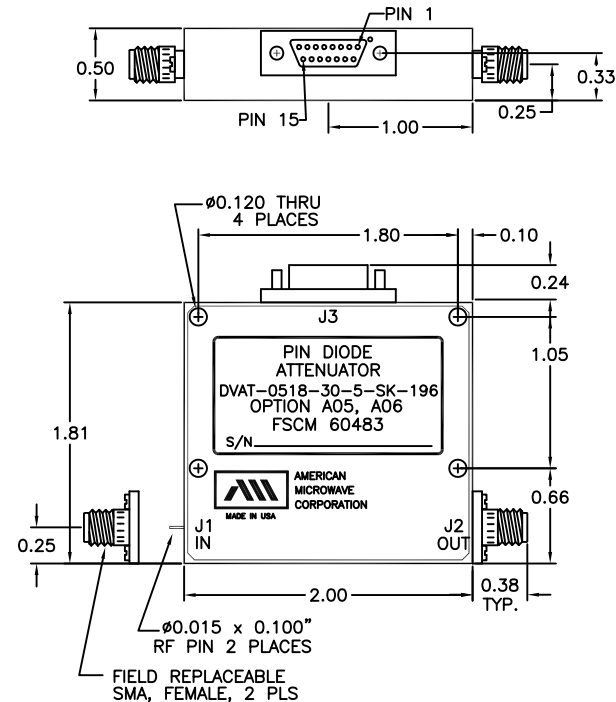
\* Units are designed to meet Environmental ratings but not tested. If Environmental Testing is required, please contact Sales Department.

STANDARD PIN NUMBERING	
PIN	FUNCTION
8	GND
7	Option: Latch En
6	Option: Analog I/P
5	GND
4	Not Used
3	Not Used
2	Not Used
1	1 dB (LSB)
15	2 dB
14	4 dB
13	8 dB
12	16 dB (MSB)
11	+12VDC
10	Not Used
9	Not Used

ALL DIMENSIONS ARE IN INCHES  
TOLERANCES:

X.XX ±0.010  
X.XXX ±0.005

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	A	SEE ER# 058-19	9/10/19	RA



### NOTES

1. Low Frequency reduced power performance refer to test report.
2. Negative supply only for compatability with previous models.
3. Negative supply may be -V, or Ground or Open Circuit.
4. SPECIFICATIONS WILL VARY OVER OPERATING TEMPERATURE.
5. SPECIFICATIONS SUBJECT TO CHANGE OR REVISION.

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ISO 9001:2008 CERTIFIED



APPROVALS		DATE	TITLE			
RRA		9/10/19	PRODUCT FEATURE DVAT-0518-30-5-SK-196 OPTION: A05, A06 5-18 GHz, VARIABLE ATTENUATOR			
RRA		9/10/19	SIZE	FSCM NO.	DWG NO.	REV.
			A	60483	100-9006	A
QAE			SCALE N:S		SHEET 1 OF 1	